Appl. No. 09/895,656
Amdt. dated 05/19/2005
Reply to Office Action of 01/19/2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended)

A system comprising a first an ATM destination transmission device, the first ATM destination transmission device having:

a destination hold circuit to hold determined selector identification;

a first destination receive circuit to receive a setup message having first selector content and establish a connection; connection on an ATM network;

a second destination receive circuit to receive on the connection a first ATM data message having a first data from an ATM source transmission device;

a destination read circuit coupled to the first destination receive circuit and the destination hold circuit, the destination read circuit to read the first selector content and compare the first selector content to the selector identification; and

a destination compose circuit coupled to the second destination receive circuit and the destination read circuit, the destination compose circuit to compose a second data message having a to-be-transmitted-second data based on the received-first data and an address of the ATM source transmission device and to send the second data message if the first selector content corresponds to the determined selector identification.

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2. (currently amended)

The system defined in claim 1 wherein at least a portion of the ~~to-be-transmitted~~ second data

is the ~~received~~ first data.

3. (currently amended)

The system defined in claim 1 wherein the ~~transmitted~~ second data is the ~~to-be-received~~ first

data.

4. (currently amended)

The system defined in claim 1 wherein the ~~first~~ ATM <u>destination</u> transmission device

includes a ~~processing device~~<u>processor</u> to respond to a coupled stored program, and the

~~processing device~~<u>processor</u> responding to the stored program includes at least one of the first

destination receive circuit, the second destination receive circuit, the destination read circuit,

and the destination compose circuit.

5. (currently amended)

The system defined in claim 1 further including a ~~second~~ ATM <u>source</u> transmission device,

the ~~second~~ ATM <u>source</u> transmission device having:

a first compose circuit <u>coupled to the first destination receive circuit, the first compose</u>

<u>circuit</u> to compose the setup message having the first selector content;

a second compose circuit <u>coupled to the second destination receive circuit, the second</u>

<u>compose circuit</u> to compose the first ~~ATM~~ data ~~message;~~<u>message and to transmit the</u>

<u>first data message to the second compose circuit; and</u>

~~a transmit circuit to transmit the first ATM data message to an ATM transmission device,~~

~~and~~

a compare circuit <u>coupled to the second compose circuit and to the destination compose</u>

<u>circuit, the compare circuit</u> to compare the ~~transmitted~~-first data to the ~~received~~-second

data if the <u>ATM</u> source transmission device receives the second data message.

6. (currently amended)

The system defined in claim 5 wherein the ~~second~~-ATM <u>source</u> transmission device includes

a ~~processing device~~<u>processor</u> to respond to a coupled stored program, and the ~~processing~~

~~device~~<u>processor</u> responding to the stored program includes at least one of the first compose

circuit, the second compose circuit, the transmit circuit, and the compare circuit.

7. (currently amended)

The system defined in claim 5 wherein the ~~second~~-ATM <u>source</u> transmission device includes

a <u>trace circuit coupled to the destination compose circuit, the trace</u> circuit to receive an

information element characterized by one of a trace information element containing hop

information and a pathtrace information element containing pathtrace information, and ~~a~~

~~circuit~~-to transmit at least a portion of the information element to a user interface.

8. (currently amended)

The system defined in claim 5 wherein the ~~second~~-ATM <u>source</u> transmission device includes

a <u>trace circuit coupled to the destination compose circuit, the trace</u> circuit to receive an

information element characterized by one of a trace information element containing hop

information and a pathtrace information element containing pathtrace information, and a

~~formatting circuit~~ to format at least a portion of the information element for at least one of displaying the portion of information on a display terminal and printing the portion of information on a printing device.

9. (currently amended)

   A method comprising:

   a ~~first~~ ATM source transmission device sending a setup message having an address selector set to a determined value to cause a ~~second~~ ATM destination transmission device to send a first confirming data message in response to receiving the first data message to establish an ATM connection between the ~~first~~ ATM source transmission device and the ~~second~~ ATM destination transmission device data, and to reflect a subsequent data message on the connection;

   the ~~first~~ ATM source transmission device establishing a connection between the ~~first~~ ATM source transmission device and the ~~second~~ ATM destination transmission device in response to the ~~second~~ ATM destination transmission device receiving the setup message; and

   the ~~first~~ ATM source transmission device sending a first data message to the ~~second~~ ATM destination transmission device after the ~~first~~ ATM source transmission device establishes the connection, the first data message having a ~~transmitted~~ first data.

10. (currently amended)

   The method defined in claim 9

wherein the first ATM source transmission device sending a startup the setup message

includes the first ATM source transmission device attaching a trace information element

to the startup setup message;

the establishing a connection includes the first ATM source transmission device receiving

the received trace response; and

the first ATM source transmission device sending at least a portion of the received trace

response to a user interface.

11. (currently amended)

The method defined in claim 9 further including

the second ATM destination device receiving the setup message;

the second ATM destination device reading the address selector; selector byte;

the second ATM destination transmission device receiving the first data message;

if the read address selector byte corresponds to the determined value, the second ATM

destination transmission device sending a second data message to the first ATM source

transmission device having a second data that includes at least a portion of the received

first data.

12. (currently amended)

The method defined in claim 11 further including

the first ATM source transmission device receiving the second data message; and

the first ATM source transmission device comparing the transmitted first data to the

received sent second data.

13. (currently amended)

A method comprising:

a first ATM destination transmission device receiving a setup message having a first

address selector from a second ATM source transmission device; device having a first

address selector content;

establishing a connection being established between the first ATM destination

transmission device and the second ATM source transmission device;

the first ATM destination transmission device receiving a first data message having a first

data on the connection; connection having a received first data;

the first ATM destination transmission device comparing the first address selector byte to

a special determined address selector byte of the first ATM destination transmission

device and if the first address selector content corresponds to a special the determined

address selector, selector identification, the first ATM destination transmission device

composing and sending a second data message to the second ATM source transmission

device having at least a portion of the sent second data corresponding to the received first

data.

14. (currently amended)

The method defined in claim 13 further including:

the second ATM source transmission device composing the setup message;

the ~~second~~ ATM source transmission device composing the first data message to have a

the first data;

the ~~second~~ ATM source transmission device sending the first data message wherein the

~~received~~ first data message coincides with the ~~received~~ first data message of claim 13.

15. (currently amended)

The method defined in claim 13 further including:

the ~~second~~ ATM source transmission device receiving the sent second data message; and

the ~~second~~ ATM source transmission device comparing the sent second data to the

~~transmitted~~ first data.

16. (currently amended)

A machine-readable medium that provides instructions which, when executed by at least one

processor on an ATM destination transmission device, cause said processor to perform

operations comprising

    receiving a first ATM setup message from a ~~first~~ ATM source transmission ~~device~~ device,

    the first ATM setup message having a destination ~~address~~ address, the destination address

    having a first selector content;

    establishing a connection between the ATM destination transmission device and the ~~first~~

    ATM source transmission device;

    reading the first selector content and comparing the first selector content to a selector

    identification;

receiving a first ~~ATM~~ data message on the ~~connection~~ connection, the first data message

having a first data; and

if the selector content corresponds to the selector identification, composing a second data

message having a ~~transmitted~~ second data based on the ~~received~~ first data and causing the

ATM destination transmission device to send the second data message on the connection.

17. (currently amended)

The operations defined in claim 16 wherein the second data is one of at least a portion of the

~~received~~ first data and an algorithmically transformed data based on at least a portion of the

~~received~~ first data.

18. (currently amended)

The operations defined in claim 16 wherein the ~~transmitted~~ second data is the ~~received~~ first

data.

19. (currently amended)

The system defined in claim 5 wherein the ~~second~~ ATM destination transmission device

includes a circuit to receive one of a trace information element containing hop information

and a pathtrace information element containing pathtrace information, and a circuit to

transmit at least a portion of the hop information to a ~~usr~~ user interface.

20. (currently amended)

An ATM destination transmission device that includes a circuit to receive an information

element characterized by one of a trace information element containing hop information and

a pathtrace information element containing pathtrace information, and a circuit to format at

least a portion of the information element for outputting to a terminal.

21. (currently amended)

The ATM destination transmission device defined in claim 20 wherein the terminal includes

~~at least one of~~ at least one of a display and a printer.

22. (currently amended)

The ATM destination transmission device defined in claim 20 that further includes a circuit

to output the at least a portion of the information to the terminal

23. (currently amended)

An ATM destination transmission device that includes:

first means for holding a determined destination device selector identification;

second means for receiving a setup message having a first selector content and setting up

a connection;

third means for receiving on the connection a first ~~ATM~~ data message having a first data

from an ATM source transmission device;

fourth means for the destination device reading the first selector content and comparing

the first selector content to the selector identification; and

fifth means for the destination device composing a second data message having a ~~to be~~

~~transmitted~~ second data based on the ~~received~~ first data and an address of the <u>ATM</u>

source transmission device and sending the second data message if the first selector

content corresponds to the determined selector identification.

24. (currently amended)

The ATM destination transmission device defined in claim 23 wherein at least a portion of

the to-be-transmitted-second data is the received-first data.

25. (currently amended)

The ATM destination transmission device defined in claim 23 wherein the transmitted

second data is the to-be-received-first data.

26. (currently amended)

The ATM destination transmission device defined in claim 23 wherein the ATM destination

transmission device includes sixth means for responding to a coupled stored program and the

sixth means responding to the stored program includes at least one of the setup-message

destination-receive-circuit-second means, the data-message-destination-receive-circuit-third

means, the destination-read-circuit-fourth means, and the destination-compose-circuit-fifth

means.

27. (currently amended)

An ATM destination transmission device that includes

a first destination receive circuit to receive a setup message from an ATM source

transmission device and establish a connection with the ATM source transmission device;

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a ~~first~~ destination hold circuit to store a selector ~~code byte~~ identification for a service to

reflect back to the ATM source transmission device ~~of a connection~~ at least a portion of a

data transmitted by the ATM source transmission device if the setup message ~~for the~~

~~source transmission device~~ includes a selector code equivalent to the selector

identification; ~~code byte identification from the source~~ ;

~~a first receive circuit to receive a setup message having a first selector content and~~

~~establish a connection;~~

a second destination receive circuit to receive on the connection a first ~~ATM~~ data

message having a first data from an ATM source transmission device;

a destination read circuit to read the ~~first~~ selector code ~~content~~ and compare the ~~first~~

selector code ~~content~~ to the stored selector ~~code byte~~ identification; and

~~if the selector identification binary value is equivalent to the stored selector code byte~~

~~identification,~~ a destination compose circuit to compose and to send to the ATM source

transmission device a second data message having a second data based on the ~~received~~

first ~~data.~~ data if the selector code is equivalent to the stored selector identification.

28. (currently amended)

The ATM destination transmission device defined in claim 27 wherein the ~~to be transmitted~~

second data is the ~~received~~ first data.

29. (currently amended)

The ATM destination transmission device defined in claim 27 that includes a ~~processing~~

~~device~~ processor to respond to a coupled stored program, and the ~~processing device~~ processor

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responding to the stored program includes at least one of the first <u>destination</u> receive circuit,

the second <u>destination</u> receive circuit, the <u>destination</u> read circuit, and the <u>destination</u>

compose circuit.

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